

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Canceled).

2. (Currently Amended) A pre-purification unit ~~according to claim 1 which is a~~  
~~thermal swing adsorption pre-purification unit comprising a column packed with a hydrocarbon~~  
~~adsorbent, wherein~~  
~~said hydrocarbon adsorbent comprises a zeolite that has a H-FER structure, or a Na-MOR~~  
~~structure or K-MOR structure in which a pore diameter has been adjusted by ion exchange, and a~~  
~~Si/Al ratio of no more than 20, and~~  
~~wherein said [[tower]]column is packed with sequential layers of activated alumina, a~~  
NaX zeolite, and said hydrocarbon adsorbent.

3. (Canceled).

4. (Canceled).

5. (Canceled).

6.-7. (Cancelled).

8. (Canceled).

9.-11. (Cancelled).

12. (Currently Amended) A method of pre-treating raw air, comprising using a pre-purification unit ~~according to claim 1 of a cryogenic air separation unit~~ to reduce a hydrocarbon concentration within liquid oxygen inside said cryogenic air separation unit, wherein  
said pre-purification unit is a thermal swing adsorption pre-purification unit comprising  
a column packed with a hydrocarbon adsorbent, and  
said hydrocarbon adsorbent comprises a zeolite that has a H-FER structure, or a Na-MOR  
structure or K-MOR structure in which a pore diameter has been adjusted by ion exchange, and a  
Si/Al ratio of no more than 20.

13. (Canceled).